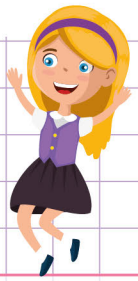
Name: ..... Class: .....

Greatest common factor



Find the greatest common factors of the numbers below.

Example : Find the greatest common factor of 72 and 24.

1. Find the prime factors of each number

72 = 2 x 2 x 2 x 3 x 3
24 = 2 x 2 x 2 x 3

2. Find and circle the prime factors that the numbers have in commom

72 = 2 x 2 x 2 x 3 x 3
24 = 2 x 2 x 2 x 3

3. The greatest common factor of the numbers can be found by multiplying their common prime factors together. 2 x 2 x 2 x 3 = 24 So, the GCF of 72 and 24 is 24.

The GCF of 22 and 121 is

The GCF of 28, 54 and 80 is

The GCF of 91 and 52 is

The GCF of 32, 4 and 20 is

The GCF of 12 and 96 is

The GCF of 96, 48 and 24 is

The GCF of 75 and 90 is

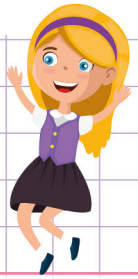
The GCF of 98, 7 and 28 is

Solution

mathskills4kids

Name: ..... Class: .....

Greatest common factor



Find the greatest common factors of the numbers below.

Example : Find the greatest common factor of 72 and 24.

1. Find the prime factors of each number

72 = 2 x 2 x 2 x 3 x 3
24 = 2 x 2 x 2 x 3

2. Find and circle the prime factors that the numbers have in commom

72 = (2) x (2) x (2) x (3) x 3
24 = (2) x (2) x (2) x (3)

3. The greatest common factor of the numbers can be found by multiplying their common prime factors together. 2 x 2 x 2 x 3 = 24 So, the GCF of 72 and 24 is 24.

The GCF of 22 and 121 is

11

22 = 2 x 11
121 = 11 x 11

The GCF of 28, 54 and 80 is

2

28 = 2 x 2 x 7
54 = 2 x 3 x 3 x 3
80 = 2 x 2 x 2 x 2 x 5

The GCF of 91 and 52 is

13

91 = 7 x 13
52 = 2 x 2 x 13

The GCF of 32, 4 and 20 is

4

32 = 2 x 2 x 2 x 2 x 2
4 = 2 x 2
20 = 2 x 2 x 5

The GCF of 12 and 96 is

12

12 = 2 x 2 x 3
96 = 2 x 2 x 2 x 2 x 2 x 3

The GCF of 96, 48 and 24 is

24

48 = 2 x 2 x 2 x 2 x 3
96 = 2 x 2 x 2 x 2 x 2 x 3
24 = 2 x 2 x 2 x 3

The GCF of 75 and 90 is

5

75 = 5 x 5 x 5
90 = 2 x 3 x 3 x 5

The GCF of 98, 7 and 28 is

7

28 = 2 x 2 x 7
98 = 2 x 7 x 7
7 = 7